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## (54) Title: OLIGONUCLEOTIDES FOR GENOTYPING THYMIDYLATE SYNTHASE GENE

(57) Abstract: Oligonucleotides for genotyping the thymidylate synthase gene are provided. The number of tandem repeats in the promoter region of the thymidylate synthase gene can be identified based on the hybridization of an oligonucleotide of the invention to the genomic DNA of a subject. Therefore, the genotype of the thymidylate synthase gene can be identified based on the number of tandem repeats. The genotype relates to the responsiveness of a subject towards an antitumor agent.